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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/849,574	05/04/2001	Hyun-Jung Lee	678-627 (P9659)	9697

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EXAMINER

HOOSAIN, ALLAN

ART UNIT	PAPER NUMBER
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2645

DATE MAILED: 02/12/2004

5

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/849,574

Applicant(s)

LEE, HYUN-JUNG

Examiner

Allan Hoosain

Art Unit

2645

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 May 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 May 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by **Bharatia** (US 6,138,007).

As to Claim 1, with respect to Figures 1-3, **Bharatia** teaches a homezone call forwarding service method comprising the steps of:

(1) sending, by an origination mobile switching center (MSC), 18, location request invoke message to a home location register (HLR), 54, of a terminating subscriber in order to acquire location information of the terminating subscriber, when an originating subscriber, 34, calls the terminating subscriber, 66, (Figure 1 and Col. 4, lines 2-8);

(2) analyzing, by the HLR, number information included in the received location request invoke message to determine whether the number is a number for a homezone or a number for a non-homezone, and sending a routing information request invoke message to a terminating MSC, in order to acquire routing information, said routing information request invoke message including a parameter for inserting number identification information and a termination trigger

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parameter for defining a termination trigger point presently activated for the subscriber (Col. 4, lines 28-39);

(3) upon receipt of the routing information request invoke message, assigning, by the terminating MSC, a temporary local directory number (TLDN) for routing, registering a parameter having the number identification information and the termination trigger parameter in a visitor location register (VLR), and sending a routing information request result message having a routing information parameter to the HLR of the terminating subscriber (Col. 4, lines 8-10 and 40-47);

(4) upon receipt of the routing information request result message, sending a location request result message to the originating MSC by the HLR of the terminating subscriber;

(5) detecting, by the originating MSC, a local directory number (LDN) included in the location request result message, routing the detected local directory number to the terminating MSC, and performing a call setup process (Col. 4, lines 48-55);

(6) after call setup, determining by the terminating MSC whether to redirect a present call, by consulting the termination trigger parameter and a calling feature directive parameter registered in the VLR in a termination-inactivated state (Col. 4, lines 56-64);

(7) sending, by the terminating MSC, a redirecting request invoke message to the originating MSC, when it is determined to redirect the present call (Col. 5, lines 5-18);

(8) upon receipt of the redirecting request invoke message from the terminating MSC, sending, by the originating MSC, a transfer number request invoke message to the HLR of the terminating subscriber in order to determine a call forwarding number (Col. 5, lines 19-25); and

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(9) analyzing, by the HLR of the terminating subscriber, the transfer number request invoke message to determine to which phone number the present call should be redirected, searching for a call forwarding number of the terminating subscriber for a call forwarding service, inserting the searched call forwarding number in the transfer number request result message, and then sending the transfer number request result message to the originating MSC (Col. 5, lines 26-33).

As to Claim 2, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 1, wherein, the originating MSC detects the call forwarding number from the transfer number request result message and restarts a termination process (Col. 5, lines 19-25).

As to Claim 3, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 1, wherein, the termination trigger parameter is a parameter for defining a termination trigger point presently activated for the terminating subscriber (Col. 5, lines 5-13).

As to Claim 4, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 1, wherein the termination-inactivated state is one of a busy state, a no-answer state and a no-page response state (Col. 4, lines 48-55).

As to Claim 5, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 1, wherein, the parameter for inserting number identification information is an operational contact (a leg information parameter) (Col. 4, lines 33-38).

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As to Claim 6, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 5, wherein the redirecting request invoke message includes a resume call handling (redirecting reason parameter) and a forward to mobile station (leg information parameter) (Col. 5, lines 23-33).

As to Claim 7, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 5, wherein the transfer number request invoke message includes the leg information parameter and the termination trigger parameter (Col. 5, lines 19-33).

### *Conclusion*

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

**Alperovich et al.** (US 5,978,673) teach location based call forwarding in a mobile network.

**Lantto** (US 5,867,784) teaches improving speech quality when call forwarding between networks.

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks  
Washington, D.C. 20231  
or faxed to:

(703) 872-9314, (for formal communications intended for entry)

**Or:**

(703) 306-0377 (for customer service assistance)

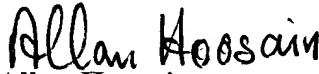
Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Allan Hoosain** whose telephone number is (703) 305-4012. The examiner can normally be reached on Monday to Friday from 8 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Fan Tsang**, can be reached on (703) 305-4895.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

  
**Allan Hoosain**  
**Primary Examiner**  
1/26/04